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Instantaneous current modeling in a complex VLIW processor core Radu Muresan, Catherine Gebotys

May 2005 ACM Transactions on Embedded Computing Systems (TECS), Volume 4 Issue 2

Full text available: pdf(3.64 MB)

Additional Information: full citation, abstract, references, index terms

Measuring and modeling instantaneous current consumption or current dynamics of a processor is important in embedded system designs, wireless communications, low-energy mobile computing, security of communications, and reliability. In this paper, we introduce a new instruction-level based macromodeling approach for instantaneous current consumption in a complex processor core along with new instantaneous current measurement techniques at the instruction and program level. Current consumption and ...

Keywords: Instruction-level current model, current and power measurement in a processor, instantaneous current model, power and energy model

2 VLSI circuit design: Increasing the energy efficiency of pipelined circuits via slack redistribution

Srivathsan Krishnamohan, Nihar R. Mahapatra

April 2005 Proceedings of the 15th ACM Great Lakes symposium on VLSI

Full text available: pdf(178.42 KB) Additional Information: full citation, abstract, references, index terms

Technology scaling and rising clock frequencies have made active and leakage power and power density major concerns. Traditional power-reduction techniques, such as dynamic voltage scaling, multi-VDD, gated-VDD, and multi-threshold designs, exploit the slack available in non-critical operations/modes and non-critical areas of the circuit. This limits the amount of power reduction when the circuit is balanced or the critical path dominates the power consumption. We present a systematic technique ...

Keywords: low-power design, slack passing, time borrowing

Statistics and secret leakage

Jean-Sebastien Coron, David Naccache, Paul Kocher

August 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 3

Full text available: pdf(218.95 KB) Additional Information: full citation, abstract, references, index terms

In addition to its usual complexity assumptions, cryptography silently assumes that information can be physically protected in a single location. As one can easily imagine, reallife devices are not ideal and information may leak through different physical channels. This paper gives a rigorous definition of leakage immunity and presents several leakage detection tests. In these tests, failure confirms the probable existence of secret-correlated emanations and indicates how likely the leaka ...

Keywords: Cryptography, side-channel analysis

Vectorless Analysis of Supply Noise Induced Delay Variation

Sanjay Pant, David Blaauw, Vladimir Zolotov, Savithri Sundareswaran, Rajendran Panda November 2003 Proceedings of the 2003 IEEE/ACM international conference on Computer-aided design

Full text available: Ddf(289.39 KB) Additional Information: full citation, abstract, index terms

The impact of power supply integrity on a design has become acritical issue, not only for functional verification, but also for performanceverification. Traditional analysis has typically applied a worstcase voltage drop at all points along a circuit path which leads to avery conservative analysis. We also show that in certain cases, thetraditional analysis can be optimistic, since it ignores the possibility of voltage shifts between driver and receiver gates. In this paper, we propose a new analy ...

Built-In Dynamic Current Sensor for Hard-to-Detect Faults in Mixed-Signal Ics

Y. Lechuga, R. Mozuelos, M. Martínez, S. Bracho

March 2002 Proceedings of the conference on Design, automation and test in Europe

Full text available: pdf(353.98 KB)

Additional Information: full citation, abstract, citings Publ<u>isher Site</u>

There are some types of faults in analogue and mixedsignal circuits which are very difficult to detect using either voltage or current based test methods. However, it is possible to detect these faults if we add to the conventional dynamic power supply current test methods IDDT, the analysis of the changes in the slope of this dynamic power supply current. In this work, we present aBuilt-In Current Sensor (BICS) which is able to processthe highest frequency components in the dynamic powersupply curre ...

On the interaction of power distribution network with substrate

Rajendran Panda, Savithri Sundareswaran, David Blaauw

August 2001 Proceedings of the 2001 international symposium on Low power electronics and design

Full text available: pdf(150.54 KB) Additional Information: full citation, references, index terms

Keywords: power grid analysis, substrate analysis, substrate coupled noise, substrate noise

JouleTrack: a web based tool for software energy profiling

Amit Sinha, Anantha P. Chandrakasan

June 2001 Proceedings of the 38th conference on Design automation

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(209.31 KB)

A software energy estimation methodology is presented that avoids explicit characterization of instruction energy consumption and pre-dicts energy consumption to within 3% accuracy for a set of bench-mark programs evaluated on the StrongARM SA-1100 and Hitachi SH-4 microprocessors. The tool, JouleTrack, is available as an online resource and has various estimation levels. It also isolates the switch-ing and leakage components of the energy consumption.

Keywords: instruction energy, leakage estimation, software energy

* High-level simulation of substrate noise generation including power supply noise coupling

Marc van Heijningen, Mustafa Badaroglu, Stéphane Donnay, Marc Engels, Ivo Bolsens June 2000 Proceedings of the 37th conference on Design automation

Full text available: pdf(114.20 KB)

Additional Information: full citation, abstract, references, citings, index terms

Substrate noise caused by large digital circuits will degrade the performance of analog circuits located on the same substrate. To simulate this performance degradation, the total amount of generated substrate noise must be known. Simulating substrate noise generated by large digital circuits is however not feasible with existing circuit simulators and detailed substrate models due to the long simulation times and high memory requirements. We have developed a methodology to simulate this su ...

Energy estimation for 32-bit microprocessors

C. Brandolese, W. Fornaciari, F. Salice, D. Sciuto

May 2000 Proceedings of the eighth international workshop on Hardware/software codesign

Full text available: pdf(221.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

Estimation of software power consumption is becoming one of the major problems for many embedded applications. The paper presents a novel approach to compute the energy of an Instruction Set, through a suitable functional decomposition of the activities involved during instruction execution. One of the main advantages of this approach is the capability to predict the power figures of the overall Instruction-Set starting from a small subset. A formal discussion on the statis ...

→ 10 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000 ACM Transactions on Design Automation of Electronic Systems (TODAES), Volume 5 Issue 2

Full text available: pdf(385.22 KB)

Additional Information: full citation, abstract, references, citings, index terms

This tutorial surveys design methods for energy-efficient system-level design. We consider electronic sytems consisting of a hardware platform and software layers. We consider the three major constituents of hardware that consume energy, namely computation, communication, and storage units, and we review methods of reducing their energy consumption. We also study models for analyzing the energy cost of software, and methods for energy-efficient software design and compilation. This survery ...

11 A digital partial built-in self-test structure for a high performance automatic gain control circuit



A. Lechner, J. Ferguson, A. Richardson, B. Hermes

January 1999 Proceedings of the conference on Design, automation and test in Europe

Full text available: pdf(117.14 KB) Additional Information: full citation, citings, index terms

,	Full-chip verification of UDSM designs R. Saleh, D. Overhauser, S. Taylor November 1998 Proceedings of the 1998 IEEE/ACM international conference on	
	Computer-aided design Full text available: pdf(879.89 KB) Additional Information: full citation, references, citings, index terms	
	Full-chip verification methods for DSM power distribution systems Gregory Steele, David Overhauser, Steffen Rochel, Syed Zakir Hussain May 1998 Proceedings of the 35th annual conference on Design automation	
	Full text available: pdf(543.14 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Power distribution verification is rapidly becoming a necessary step in deep submicron (DSM) design of high performance integrated circuits. With the increased load and reduced tolerances of DSM circuits, more failures are being seen due to poorly designed power distribution systems. This paper describes an efficient approach for the verification of power distribution at the full-chip transistor level based on a combination of hierarchical static and	

Keywords: IR-drop, PowerPC, power distribution network, reliability

14 Signal processing at 250 MHz using high-performance FPGA's Brian Von Herzen

February 1997 Proceedings of the 1997 ACM fifth international symposium on Fieldprogrammable gate arrays

Full text available: pdf(1.06 MB)

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Additional Information: full citation, references, citings, index terms

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